

HEAVY VEHICLE MODIFICATIONS

Checklist S3

**RATING OF GROSS COMBINATION MASS
APPROVED DESIGN CERTIFICATION
FOR MODIFIED VEHICLES**

1.0 **Vehicle components:**

Engine: Engine No:

Rated power @ Rpm: Governed Rpm:

Max torque @ Rpm: Nm

Tailshaft: Mfrs max torque: Nm

Component:	Make/model	OEM max GCM rating
Transmission:	<input type="text"/>	<input type="text"/> kg
Low/Top ratios:	<input type="text"/> 1 <input type="text"/>	
Aux. Transmission:	<input type="text"/>	<input type="text"/> kg
Low/Top ratios:	<input type="text"/> 1 <input type="text"/>	
Rear Axle:	<input type="text"/>	<input type="text"/> kg
Low/Top ratios:	<input type="text"/> 1 <input type="text"/>	
Rear suspension:	<input type="text"/>	<input type="text"/> kg
Front axle:	<input type="text"/>	
Front suspension:	<input type="text"/>	
Tyres	<input type="text"/>	
Front: Tyres	<input type="text"/>	
Rear: Tyres	<input type="text"/>	
Chassis section:	<input type="text"/>	
Wheelbase:	<input type="text"/> Overhang <input type="text"/>	
Tow coupling / Fifth wheel: Make/model:	<input type="text"/>	D Rating <input type="text"/> kg
Tow coupling overhang:	<input type="text"/>	(if applicable)

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Modified GCM rating assigned: kg

Vehicle make/model if used for comparison:

(Y=Yes, N=No, N/A =Not Applicable)

- 2.0 Is the modified GCM within the component manufacturer's limits?
- 3.0 Does the chassis have adequate strength? (Have chassis strength calculations or details of reference vehicle model used for comparison been retained for future audit?)
- 4.0 Are cross-members and tow coupling adequate for any increase in GCM as outlined in Section P?
- 5.0 Has the appropriate G Code (Brakes) certification been completed?
- 6.0 **Tyres and Rims**
- 6.1 Does the tyre placard, if fitted, record the correct tyre and rim sizes, axle configurations, axle loads and inflation pressures for the modified vehicle?
- 6.2 Are tyres and rims fitted in accordance with the tyre placard?
- 7.0 Has grade-ability been established to exceed 23% at the modified GCM?
- 8.0 Is the vehicle in satisfactory mechanical condition?
- 9.0 Is the quality of workmanship to a satisfactory standard?

NOTE: If the answer to any relevant question is "NO", the modification is not acceptable.

Vehicle identity and information sourceVehicle make / Model: Chassis No /VIN: Year of Mfr: Vehicle Modified By: Vehicle examined or details supplied by: Company (if applicable): **Certification**Vehicle inspected/not inspected: Yes / no as applicableModification Plate No. issued: (Applicable only if vehicle inspected)Certificate number issued: Certificate approved by: Company (if applicable): Signed when printed: Certifying Officer No: Date: **If Certificate issued to S1 Certifying Officer:**

Certificate and checklist issued to:

Name: Certifying Officer No: Company: **Note: A copy of this checklist must be supplied with the certificate to the S1 Certifying Officer.**